

December 24, 2018

Kleinfelder Project No.: 20190476.001A

Mr. Jim McNulty Development Services Manager Murray City Public Services 4646 South 500 West Murray, Utah 84123

SUBJECT: 2018 ANNUAL REPORT

OF SEMI-ANNUAL BARRIER MAINTENANCE AND MONITORING

**MURRAY COSTCO WHOLESALE WAREHOUSE #764** 

**5201 SOUTH INTERMOUNTAIN DRIVE** 

**MURRAY, UTAH** 

Dear Mr. McNulty:

This report documents surface barrier monitoring, storm drain inspections and barrier maintenance conducted at the Murray Costco Wholesale Warehouse (Site) referenced above during 2018. Semi-annual barrier monitoring and storm drain inspections were conducted by Kleinfelder personnel at the COSTCO Wholesale Warehouse (Site) referenced above on May 31 and November 30, 2018.

The barriers were inspected according to the Site Barrier Maintenance and Monitoring Plan (BMMP) dated August 8, 2002, and amended June 6, 2016. The inspections included visually examining select storm drain inlets and ground surface barriers, noting defects (if any), and making recommendations for repairs, if required. Information collected during the inspections was recorded on the Barrier Inspection Checklists and Map and the Storm Drain Inspection Checklists provided in Attachment A. In general, typical wear and tear was observed on the Site landscaping and asphalt and concrete barriers, as described in this report. No breach of the surface barriers was observed in either inspection, and the Site surface barriers appear to be managed and maintained in accordance with the BMMP.

#### LANDSCAPING BARRIERS

During the May 31, 2018 inspection, excavated landscaping (grass) and soil were observed at ground surface in the southeast corner of the Site. The excavated soil and grass were covered with a weighted tarp. The excavation was the result of utility repair work that was conducted in accordance with an approved permit from Murray City. Excavated soil was managed in accordance with the BMMP.

During the May 31 inspection minor (less than 6 inches) settling was observed in one landscaped area in the north portion of the Site and one landscaped area in the west portion of the Site. The settlement did not create a breach or exposure to subsurface soils. The remainder of the landscaping barriers were did not display signs of settlement, soil erosion, or soil damage from vehicles; soil depressions or differences in barrier elevations with standing water; channels in the soil; damaged, missing, or ineffective erosion control systems.

During the November 30, 2018 inspection, the landscaping in the former utility excavation near the southeast corner had been repaired, in accordance with the BMMP. No stockpiled soil or landscaping breach were observed along the site perimeter during our November 2018 inspection.

#### **ASPHALTIC CONCRETE BARRIERS**

During the May and November inspections, asphaltic barriers contained cracks indicative of normal wear, many of which were sealed with tar. Slight settling was observed in various locations throughout the Site. One pothole was observed during the May inspection that was repaired prior to the November inspection. It should be noted that during the inspections, Kleinfelder did not observe soils breaching the asphalt and concrete surfaces in the observed areas of cracking and settling.

#### **CONCRETE BARRIERS**

Concrete damage, up to 6 inches in diameter, was observed in the northeast portion of the gas station, however the worn concrete did not extend to, or expose the underlying soil. In addition, minor concrete settling was observed in the gas station area and along a few parking curbs and adjacent to storm drain drop inlets (SDDIs) in the west, south, and north portions of the Site. The remainder of the concrete barriers were in place, including sidewalks, curbs, and gutters, loading platforms, and parking areas. Large cracks and separations were not identified during our inspections of the sealed joints (present at the fuel center).

#### WAREHOUSE BUILDING (CONCRETE BARRIER)

Minor concrete damage was observed along the northeast and south warehouse perimeter. The remainder of the concrete barriers were in place around the exterior of the warehouse building, and concrete joints were sealed. No significant cracks, holes, settlement areas, or other physical features that would indicate the integrity of the barrier had been compromised were observed during the barrier inspection. No maintenance actions are needed at this time.

#### STORM DRAIN DROP INLET (SDDI) INSPECTION

Select SDDIs were inspected to assess whether groundwater is leaking into the storm drain system via the drain vaults. Based upon previous Site investigations and storm drain repairs, inspections of SDDI-1 through SDDI-9 are included as part of the Site BMMP. Inspection and reporting requirements are outlined in Addendum 2 to the BMMP, dated June 6, 2016.

The selected storm drains (SDDI-1 through SDDI-9) were inspected by a Kleinfelder field engineer on May 31 and November 30, 2018. Standing water was observed in the nine inspected SDDIs at the approximate level of the inlet and outlet piping. The sidewalls of the storm drains were generally dry; however, a sheen of water was observed weeping from the west wall of SDDI-3 following landscaping irrigation the morning of the May 31, 2018 inspection. The source of the seeping water appeared to be from a depth between 1.5 and 4 feet below grade. Based on the shallow depth of the seeping water, the source of the water may have been the landscape watering.

Kleinfelder collected a water sample from SDDI-3 on June 5, 2018, to assess whether the seeping water was resulting in migration of subsurface impacts to the storm water system. The groundwater sample was submitted to Pace Analytical for analysis of dissolved arsenic. A dissolved arsenic concentration of 0.0104 milligrams per liter was detected in the groundwater sample collected from SDDI-3. Based on the analytical results, the water seepage observed in SDDI-3 in May does not appear to have the potential to significantly impact storm water within the storm drain. The analytical results are provided in Attachment B. In addition, water seepage was not observed in SDDI-3 during the November inspection.

A slight seepage or weeping was observed on the SDDI-2 wall during the November inspection; however, it did not appear to have the potential to significantly impact storm water within the drain. Kleinfelder will monitor the SDDI-2 seepage during future inspections for changes in the wall integrity. No groundwater leaks were evident in the storm drains, and the previously repaired areas appeared to remain intact with no apparent leakage. Checklists from the May and November inspections are included in Attachment A.

#### SITE BARRIER REPAIR WORK

No Site repairs were conducted to the storm drains in 2018. Maintenance of the Site pavement appeared to have been performed to repair cracks and potholes. The utility repairs conducted in the southeast Site perimeter were conducted in accordance with the BMMP and a Smelter Site Overlay District (SSOD) excavation permit, which was obtained from Murray City. No stockpiled soil or evidence of a landscaping breach was observed during the November 2018 inspection.

#### MONITORING INSPECTION SCHEDULE

Costco's owner representative will conduct barrier inspections on a semi-annual basis to ensure the barriers are maintained in a manner to prevent human exposure to subsurface soils. The next inspection is scheduled for May 2019.

#### **LIMITATIONS**

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and

recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided. Please contact us at 801.261.3336 if you have any questions or desire additional information.

Sincerely,

KLEINFELDER, INC.

Jill Hernandez, PE

Staff Engineer

Corinne Hillard, PG

Sr. Project Manager

#### **ATTACHMENTS**

Attachment A: Barrier Inspection Checklists – May 31 and November 30, 2018

Barrier Inspection Map - November 30, 2018

Storm Drain Inspection Checklists - May 31 and November 30, 2018

Attachment B: Analytical Results of SDDI-3 Water Sample

cc: Diane Carter - COSTCO

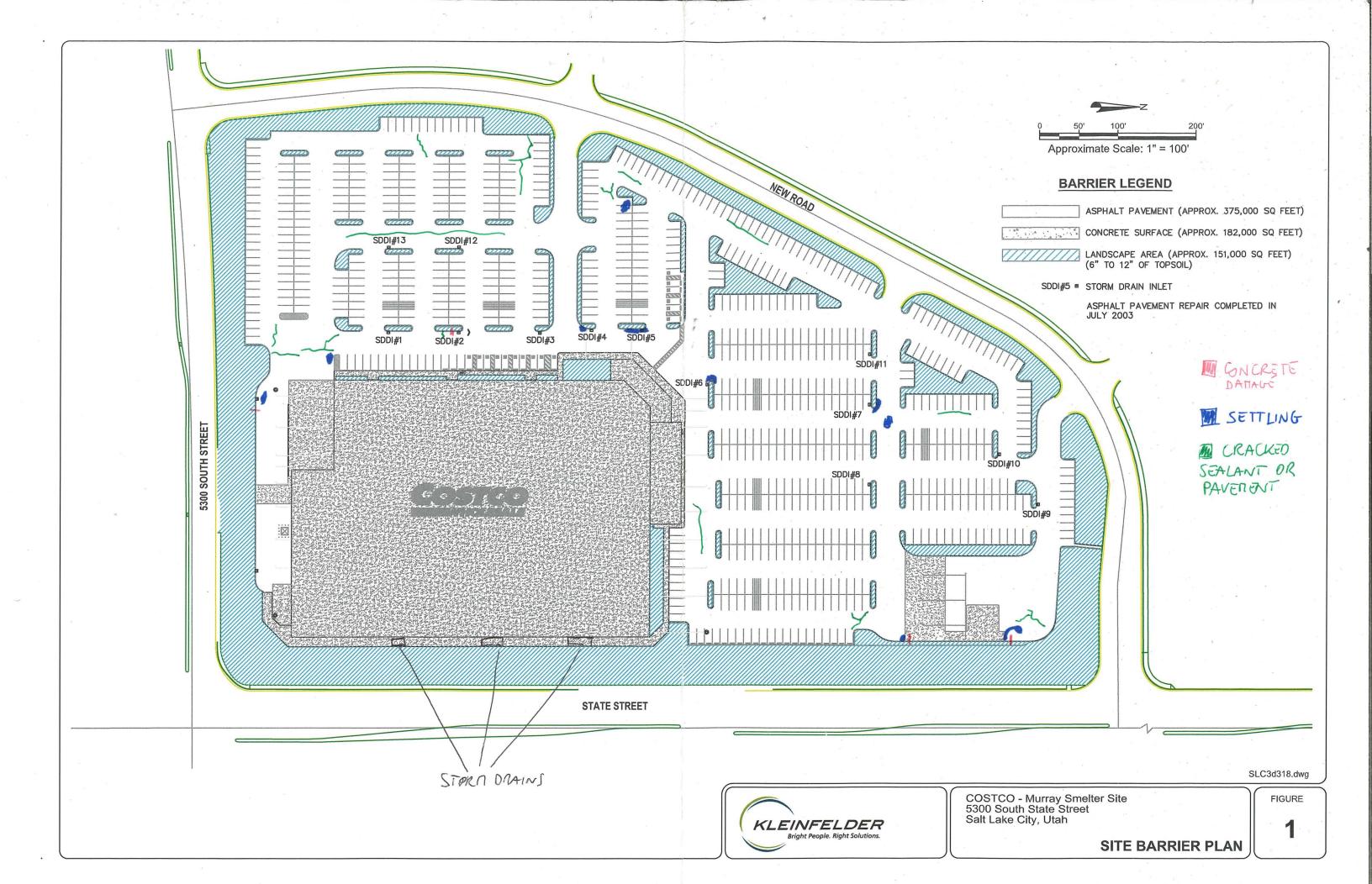
Jeff Warner - COSTCO

Michael Storck – Utah DERR

Erna Waterman- EPA

#### **ATTACHMENT A**

Barrier Inspection Checklists
Barrier Inspection Map
Storm Drain Inspection Checklists



## COSTCO Wholesale Warehouse Barrier Inspection Checklist

Date: 5/3/18 Inspector: 1. Hernandez
Barrier Type: Interior Landscaping  Is the barrier in place and properly maintained: Yes \ No \ Not Applicable \  Observations/Comments: The interior landscaping appeared to be in good condition, with a couple of Minor softled areas on the west side of the poperty.
Barrier Type: Perimeter Landscaping  Is the barrier in place and properly maintained: Yes No Not Applicable Observations/Comments: The perimeter landscaping appeared to be in goo condition, with one exception. The landscaping has been exceed in the southeast corner of the site. The excavation appears to be related to utility work. The excavated soils landscaping is covered with a tarp's weighted down.
Is the barrier in place and properly maintained: Yes \ No \ Not Applicable \ Observations/Comments: \ \frac{5}{1000} \ \frac{5}{1000} \ \frac{5}{1000} \ \frac{5}{1000} \ \ \frac{5}{1000} \ \frac{5}{1000} \ \frac{5}{1000} \ \frac{5}{1000} \ \frac{5}{1000} \ \frac{5}{1000} \ \ \frac{5}{1000} \ \frac{5}{1000} \ \frac{5}{1000} \ \ \frac{5}{1000} \ 5
Barrier Type: Asphalt Pavement - North Lot  Is the barrier in place and properly maintained: Yes No Not Applicable downers!  Observations/Comments: Aseveral areas of minor asphalt pavement were observed in the north lot; however, the pavement was generally observed to be in good condition.
Barrier Type: A sphalt Pavement - South Lot  Is the barrier in place and properly maintained: Yes \ No \ Not Applicable \ Observations/Comments: Several areas of minor asphalt pavement damage were observed in the south parking lot; however, the pavement was generally observed to be in good condition.
Barrier Type:  Is the barrier in place and properly maintained: Yes No Not Applicable  Observations/Comments:
Inspection Results:

Costco Wholesale Warehouse Murray, Utah

DATE: 5/31/18

DESCRIPTION OF THE PROPERTY OF THE PRO

Storm Drain Inspection Checklist

1) Are seeps, crack	s, or leaks visible	in the storm drain?	
.1		If yes, describe:	÷
SSDI-1:	YesNo	K	
SSDI-2:	YesNo	×	N
SSDI-3:	Yes 🔀 No	Water is sessing from crack other 1.5' or 4' below and	de on west, wall,
SSDI-4:	Yes No	Water is seeping from crack either 1.5' or 4' below go	oossi bly both.
SSDI-5:	Yes No	X	, <i>J</i>
SSDI-6:	Yes No	X	
SSDI-7:	Yes No		
SSDI-8:	Yes 😿 No	Minor water weeping on north wall & northwest corner	
SSDI-9:	Yes No	X TAMES MAIN MAIN WASHINGTON TO THE	
2) is standing water	present in the sto		
SSDI-1:	Yes 🔀 No	If yes, describe:	
SSDI-2:	Yes X No		
SSDI-3:	<del></del>		
	Yes X No		
SSDI-4:	Yes X No		
SSDI-5:	Yes X No		
SSDI-6:	Yes X No		
SSDI-7:	Yes X No		
SSDI-8:	Yes No		
SSDI-9:	Yes X No		
If Yes: When was the last sto Have any activities be have put water in the	een conducted in th	0/18 ~ 1800 e drainage area or all up slope drain inlet areas that may  Just imagating the plants in the landscaped areas.	
Any evidence of irriga	ation water going int Yes XNo	o the system? I Irrigation running at 0740.	
3) Is running water	present in the sto		
		If yes, describe:	
SSDI-1:	Yes LNo	X	
SSDI-2:	YesNo	X	
SSDI-3:	Yes No	·X	
SSDI-4:	YesNo	LX	
SSDI-5:	Yes 🔀 No	Water from importion system running through the drain.	
SSDI-6:	Yes 🔀 No		
SSDI-7:	Yes No	×	
SSDI-8:	Yes 📉 No	Water from irrigation system running through the drain.	
SSDI-9:	YesNo	X	
If Yes: When was the last sto	orm event?		
	Yes XINo	5/30/18 ~1800	
Is running water prese	ent in up slope stori YesNo	m drains?	
lo suppling mater and a	ont in down alone at	vorm draina?	
Is running water prese	Yes 🔀 No	Some of the down-slope drains had minor	
amounts a	of water r	unning through them, likely from the irrigation on-site	•
Corrective Action Ta	aken:	······································	
· · · · · · · · · · · · · · · · · · ·			
· · · · · · · · · · · · · · · · · · ·			
<del></del>			

# COSTCO Wholesale Warehouse Barrier Inspection Checklist

Date: 11/30/18 Inspector: R. STELA
Barrier Type: IN TERION LAND SCAPING  Is the barrier in place and properly maintained: Yes \( \text{No} \) No \( \text{No} \) Not Applicable \( \text{Doservations} \) Observations/Comments: \( \text{Ihe anterior landscaping applicable} \) to be \( \text{Ann 200d STatus} \).
Barrier Type: PERITER LANDSCAPING  Is the barrier in place and properly maintained: Yes No Not Applicable Observations/Comments: The perimeter land scaping appeared to have good status.
Barrier Type: GNCNETE SVRFACES  Is the barrier in place and properly maintained: Yes No Not Applicable Observations/Comments: Few locations were not ceal where the Concrete Surfaces water damages however overall the Concrete Surfaces resulted to he in good condition.
Barrier Type: APHALT PAVON OVT - SOUTH LOT  Is the barrier in place and properly maintained: Yes No Not Applicable Observations/Comments: Some of the news presented asphalt pavement oning as always. However the parement in the South lot was overlying application.
Barrier Type: ASPHALT PAVENDYI -NORTH LOT  Is the barrier in place and properly maintained: Yes \( \sigma \) No \( \sigma \) Not Applicable \( \sigma \)  Observations/Comments: Some of the areas presented asphalt  Pavenger minor almoses. However the pareness in  He North lot was generally in good consistion:
Barrier Type: Is the barrier in place and properly maintained: Yes  No Not Applicable Observations/Comments:
Inspection Results:



# Costco Wholesale Warehouse Murray, Utah DATE: 11/30/18 DESCRIPTION OF THE STELLA

Storm Drain Inspection Checklist

SSDI-1: Yes
SSDI-2: Yes
SSDI-3: Yes
SSDI-4:
SSDI-5:
SSDI-6: Yes
SSDI-7:
SSDI-8: Yes   No   X
SSDI-9: Yes
2) Is standing water present in the storm drain?    SSDI-1:
SSDI-1:       Yes       X       No
SSDI-1:       Yes       X       No         SSDI-2:       Yes       X       No         SSDI-3:       Yes       X       No         SSDI-4:       Yes       X       No         SSDI-5:       Yes       X       No         SSDI-6:       Yes       X       No         SSDI-7:       Yes       X       No         SSDI-8:       Yes       X       No         SSDI-9:       Yes       No       No
SSDI-2:       Yes       No         SSDI-3:       Yes       No         SSDI-4:       Yes       No         SSDI-5:       Yes       No         SSDI-6:       Yes       No         SSDI-7:       Yes       No         SSDI-8:       Yes       No         SSDI-9:       Yes       No
SSDI-3: Yes
SSDI-4: Yes
SSDI-5: Yes
SSDI-6: Yes
SSDI-7: Yes No No SSDI-8: Yes SSDI-9: Yes No
SSDI-7: Yes No No SSDI-8: Yes No
SSDI-8: Yes No No No
SSDI-9: Yes No
Have any activities been conducted in the drainage area or all up slope drain inlet areas that may have put water in the system?  Yes No X
Any evidence of irrigation water going into the system?  Yes No No
3) Is running water present in the storm drain?  If yes, describe:
SSDI-1: Yes No X SSDI-2: Yes No X
SSDI-2: Yes No X
SSDI-3: Yes No K
0051 0.
SSDI-5: Yes No 🗶
SSDI-6: Yes No X
SSDI-7: Yes No 🗶
SSDI-8: Yes No 🗶
SSDI-9: Yes No 🗶
If Yes: When was the last storm event?
If Yes: When was the last storm event? Yes No
When was the last storm event? Yes No Storm drains?
When was the last storm event? Yes No Is running water present in up slope storm drains? Yes No
When was the last storm event? Yes No Service No Servic
When was the last storm event? Yes No Is running water present in up slope storm drains? Yes No
When was the last storm event?  Yes No  Is running water present in up slope storm drains?  Yes No  Ye
When was the last storm event?  Yes No  Is running water present in up slope storm drains?  Yes No  Ye
When was the last storm event?  Yes No  Is running water present in up slope storm drains?  Yes No  Ye
When was the last storm event?  Yes No  Is running water present in up slope storm drains?  Yes No  Ye
When was the last storm event?  Yes No  Is running water present in up slope storm drains?  Yes No  Ye

#### **ATTACHMENT B**

**Analytical Results** 



## ANALYTICAL REPORT June 13, 2018



#### GSC/Kleinfelder - SLC

Sample Delivery Group: L999326

Samples Received: 06/06/2018

Project Number:

Description: Costco-Murray Water Sample

Report To: Corinne Hillard

849 W Levoy Dr, Ste 200

Salt Lake City, UT 84123

Entire Report Reviewed By:

Jason Romer

Technical Service Representative Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
SDDI-3-6-5-2018 L999326-01	5
Qc: Quality Control Summary	6
Metals (ICP) by Method 6010B	6
GI: Glossary of Terms	7
Al: Accreditations & Locations	8
Sc: Sample Chain of Custody	9























SDDI-3-6-5-2018 L999326-01 GW			Collected by J Micovic	Collected date/time 06/05/18 08:15	Received date/time 06/06/18 10:00
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Metals (ICP) by Method 6010B	WG1122998	1	06/12/18 11:45	06/13/18 12:13	CCE



















All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

<sup>2</sup>Tc















Technical Service Representative

SDDI-3-6-5-2018

## SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

#### . 4

Collected date/time: 06/05/18 08:15

#### Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Arsenic, Dissolved	0.0104		0.0100	1	06/13/2018 12:13	<u>WG1122998</u>



















#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Metals (ICP) by Method 6010B

L999326-01

#### Method Blank (MB)

(MB) R3317577-6 06/13/18	3 13:31			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Arsenic, Dissolved	U		0.00650	0.0100







#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3317577-1	06/13/18 11:08 • (LCSD)	R3317577-2	06/13/18 11:12							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic, Dissolved	1.00	0.898	0.981	89.8	98.1	80.0-120			8.74	20





# <sup>6</sup>Qc

#### L1000460-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1000460-06 06/13/18 11:15 • (MS) R3317577-4 06/13/18 11:22 • (MSD) R3317577-5 06/13/18 11:25

(03) 11000400-00 0	0/13/16 11.13 • (1013) 1	1331/3//-4 00	/13/10 11.22 • (	1VI3D) K331/3//	-5 00/15/10 1	1.23						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Arsenic Dissolved	1.00	U	1.03	1.05	103	105	1	75.0-125			2.12	20







### **GLOSSARY OF TERMS**

#### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

#### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

#### Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.













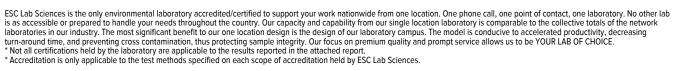






#### **ACCREDITATIONS & LOCATIONS**





#### **State Accreditations**

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia <sup>1</sup>	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky <sup>1 6</sup>	90010
Kentucky <sup>2</sup>	16
Louisiana	Al30792
Louisiana <sup>1</sup>	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico <sup>1</sup>	n/a
New York	11742
North Carolina	Env375
North Carolina <sup>1</sup>	DW21704
North Carolina <sup>3</sup>	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T 104704245-17-14
Texas <sup>5</sup>	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

#### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA - ISO 17025 5	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

<sup>&</sup>lt;sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

#### Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



















8 of 9

Kleintelder		Billing Info	illing Information:			Analysis / Container / Preservative						Chain of Custody Page of				
		KLEINTOT E										_ 🐉	ESC			
CURIMUE HUMED Ema			Email To:	MAIL TO: CHOLLANDCKLONIGIOER.										12065 Lebanon Ri Mount Juliet, TN 1		
Project COSTCU-MUILIZM  Description: WATER SAMPLE				City/State SLC, UTALAH										Phone: 615-758-5 Phone: 800-767-5 Fax: 615-758-585	35	
Phone: 801 · 261 · 333 6 Client Project #			_	Lab Project #										L# 999 H2		
Collected by (print):  J. M. CONC	Site/Facility ID #			20190476			Anson								LEINTOT	
Collected by (signature);  Ignorediately Packed on Ice N X Y	Same D	Lab MUST Be I lay Five 0 ly 5 Day y 10 Day	(Rad Only) y (Rad Only)	Quote #  Date Results Needed			SSOWED							Template: Prelogin: TSR: Jaso		
Sample ID	Comp/Grab	1	Depth	Date	Time	Cntrs	DIS					Shipped		Shipped Via:	ped Via:	
SDD-EIN	si kotenini.	223	Miles	Dispersion	- Patriotel	ij		12						Remarks	Sample # (lab only)	
SDDI-3-6-5	2018 Cans	WATER	/	45/18	08:15	1	X								-01	
				200			7									
				200			1							till der e		
				Laga		1			1							
* Matrix: SS - Soll AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: P	TITTER	2110	LAB						рН	Temp		COC Sea	Sample Receipt C/ 1 Present/Intact med/Accurate: arrive intact:	neokijet NP Y N	
DW - Drinking Water Samples returned via: UPSFedExCour		er SWA Tracking# COV CI				IC 2330 1504					Sufficient volume sent:					
Relinquished by : (Signature) Date:		8 1	Time: 13:00 Received by: (Signature)				(350		Trip Blank Received: Yes No HCL MeoH			VOA Zero Headspace: Y N Preservation Correct/Checked: Y N				
//// · EXCSLCOL		6/5/11 Date:	8 1	700	Received for Joh hu			Temp: °C Bottles Received: If preservation required by Lo				ation required by Log	in: Date/Time			
			7		William (	Isignati	ure)		Dat (0)	11 1107	Time:	)	Hold:		NCF / OK	